

ABSTRACT

A moving picture communication device and a gateway capable of suppressing or limiting image quality deterioration as well as a moving picture communication system including them are provided. Control information 141 is transmitted from a moving picture reception/decoding device 2 to a moving picture encoding/transmission device 3 at a predetermined time interval. The moving picture encoding/transmission device 3 performs encoding in the intra-frame encoding mode according to the control information 141, thereby suppressing the propagation of image deterioration caused by a transmission error to a subsequent frame and performs image refresh operations at a predetermined interval. The moving picture encoding/transmission device 3 performs the image refresh operation at a predetermined interval so as to recover from image deterioration when the control information 141 is received even if erroneous recognition has occurred, i.e., normal decoding is recognized in spite of the fact that the image deterioration has been caused by a transmission error.